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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/813,268	03/31/2004	Ramesh V. Peri	42339-199422	5373
26694	7590 04/19/2006		EXAM	IINER .
VENABLE LLP P.O. BOX 34385		•	FIEGLE, RYAN PAUL	
	ON, DC 20045-9998		ART UNIT	PAPER NUMBER
	,		2183	
•			DATE MAILED: 04/19/200	06

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/813,268	PERI ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Ryan P. Fiegle	2183				
The MAILING DATE of this communication app		the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a rep within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH cause the application to become ABAI	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>31 M</u>	arch 2004.					
	nis action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-12</u> is/are rejected.	Claim(s) <u>1-12</u> is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>31 March 2004</u> is/are:	a)⊠ accepted or b)⊡ objed	cted to by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s	is objected to. See 37 CFR 1.121(d).				
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:		,,,,,,				
1. Certified copies of the priority document	s have been received.	,				
2. Certified copies of the priority document	s have been received in Ap	olication No				
3. Copies of the certified copies of the prior	rity documents have been re	eceived in this National Stage				
application from the International Bureau	J (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not re	eceived.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Su					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 		Mail Date ormal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

DETAILED ACTION

Information Disclosure Statement

1. An IDS not belonging to the instant application was incorrectly put in the file. If there was actually an IDS belonging to this case, please resubmit it.

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 7-9 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 7-9 refer to a machine-accessible medium which is defined by the specification to include carrier waves which have been found to be unstatutory.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 5. Claims 1-12 rejected under 35 U.S.C. 102(b) as being anticipated by Sturges et al. (US Patent 5,961,637).
- 6. As per claim 1:

A processor, comprising:

an instruction pipeline having N stages (column 3, 4) (Fetching, decoding and executing are discussed);

an instruction set, comprising a branch instruction and a branch notification instruction operative to receive at least one argument M (column 3, lines 44-55); and a loading module to place instructions in said instruction pipeline (column 4, lines 30-35).

wherein said branch notification instruction is to indicate to said loading module via said at least one argument M that a branch instruction will occur within M instructions in said instruction pipeline, and wherein when said branch notification instruction is executed, said loading module is to load an instruction beginning at a branch point for said branch (column 3, lines 44-55; column 4, lines 53-61; column 5, lines 1-4; column 9, lines 51-67).

7. As per claim 2:

The processor of claim 1, wherein said branch notification instruction has at least two arguments comprising a number of instructions M, and a branch target (column 9, lines 51-67).

8. As per claim 3:

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The processor of claim 1, wherein said branch notification instruction is at least one of 16 bits or 32 bits (column 11, lines 40-43).

9. As per claim 4:

A method of static branch prediction, comprising:

inserting a branch notification instruction into an instruction sequence before a branch instruction, wherein said branch notification instruction indicates a separation of M instructions from said branch instruction, and wherein said branch has a branch target (column 3, lines 44-55);

executing said branch notification instruction (column 3, lines 44-55); and fetching an instruction starting at said branch target immediately after executing said branch notification instruction (column 3, lines 44-55).

10. As per claim 5:

The method of claim 4, wherein said inserting a branch notification instruction further comprises:

inserting a branch notification instruction indicating both a separation of M instructions from said branch instruction and a branch target (column 3, lines 44-55; column 4, lines 53-61; column 5, lines 1-4; column 9, lines 51-67).

11. As per claim 6:

The method of claim 4, wherein said inserting a branch notification instruction further comprises inserting one of a 16 bit and 32 bit branch notification instruction according to said separation M (column 3, lines 44-55; column 4, lines 53-61; column 5, lines 1-4; column 9, lines 51-67).

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12. As per claims 7-9:

Claims 7-9 refer to a machine-accessible medium containing software to run the method of claims 4-6. While Sturges does not explicitly disclose such a medium, it is inherent that it is present to be able to execute the method on a system.

13. As per claim 10:

A system, comprising:

a random-access memory (Figure 4, item 41);

a processor coupled to said memory, said processor comprising:

an instruction pipeline having N stages (column 3, 4) (Fetching, decoding and executing are discussed);

an instruction set, comprising a branch instruction and a branch notification instruction operative to receive at least one argument M (column 3, lines 44-55); and

a loading module to place said sequence of instructions in said instruction pipeline (column 4, lines 30-35);

wherein said branch notification instruction is to indicate to said loading module via said at least one argument M that a branch instruction will occur within M instructions in said instruction sequence, and wherein when said branch notification instruction is executed, said loading module is to load an instruction beginning at a branch point for said branch (column 3, lines 44-55; column 4, lines 53-61; column 5, lines 1-4; column 9, lines 51-67).

14. As per claim 11:

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The system of claim 10, wherein said branch notification instruction has at least two arguments comprising:

a number, which indicates the location of forthcoming branch instruction in said sequence of instructions (column 9, lines 51-67); and

a branch target location.

15. As per claim 12:

The system of claim 10, wherein said branch notification instruction is at least one of 16 bits or 32 bits, depending on the offset needed to encode the branch target (column 11, lines 40-43).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan P. Fiegle whose telephone number is 571-272-5534. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on 571-272-4162. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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FODIE CHAN

SUPERVISORY PATENT EXAMINATION
TECHNOLOGY CENTER 2100